IN THE U.S. PATENT AND TRADEMARK OFFICE 10/539753

In re application of

JC17 Rec'd PCT/PTO 20 JUN 2005

Tsuyoshi YAMAMOTO et al.

Conf.

Application No. NEW NATIONAL PHASE

Group

Filed June 20, 2005

Examiner

OUANTUM COMPUTING DEVICE AND USING METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT (SUBMISSION CONCURRENT WITH THE FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

June 20, 2005

Sir:

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Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION Ι.

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

COPIES II.

- Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- Submitted herewith is a legible copy of (i) each foreign \boxtimes patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned. please contact the undersigned.

| | | | Docket No. 8013-1242 | | | | | | | | |
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| III. | CONC (che | ISE E ck at | XPLANATION OF THE RELEVANCE JC17 Rec'd PCT/PTO 20 JUN | | | | | | | | |
| | a. | | DOCUMENTS IN THE ENGLISH LANGUAGE | | | | | | | | |
| | | | The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy. | | | | | | | | |
| | b. | | DOCUMENTS NOT IN THE ENGLISH LANGUAGE | | | | | | | | |
| | | | A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows: | | | | | | | | |
| | FOREIGN SEARCH REPORT OR ACTION | | | | | | | | | | |
| An English language version of the search reaction that indicates the degree of relevant by the foreign office is attached, satisfying the requirement for a explanation. See MPEP 609(A)(3). | | | | | | | | | | | |
| | d. | | OTHER | | | | | | | | |
| The following additional information is provided for the Examiner's consideration. | | | | | | | | | | | |
| FEES | | | | | | | | | | | |
| cond | This currer cefore | ntly | formation Disclosure Statement is being filed with the filing of a new patent application; fee is required. | | | | | | | | |
| is | If ' | The Ested t | xaminer has any questions concerning this IDS, he/she to contact the undersigned. | | | | | | | | |
| | | | Respectfully submitted, | | | | | | | | |
| | | | YOUNG & THOMPSON | | | | | | | | |
| | | | Benoît Castel | | | | | | | | |
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Other:____

Foreign Search Report

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Enclosures:

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| Examiner Initial | Document Number | Date | | Country | 0.0 | 33 Cubola | Yes No | |
| | JP 2000-277723 | 10/6/2000 | JAPAN JAPAN | | | | _ | |
| | JP 2000-068495 | 3/3/2000 | JAFAN | | | | | |
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| | OTHER DOCUME | | | | | | | |
| | AASSIME, A. et al., Radio-F Sensitivity and Backaction, F to 3379 | requency Single- Physical Review I | Electron Trar Letters, Vol. 8 | sistor as Rea 6, No. 15, 09 | dout Device April, 2001 | e for Qubit I (09.04.01 | s: Charge), pages 3376 | |
| | NAKAMURA, Y. et al., Cohe Nature, Vol. 398, 29 April, 19 | rent control of m 999 (29.04.99), p | acroscopic qu ages 786 to 7 | antum states '88 | in a single | -Cooper-pa | air box, | |
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* English language abstract provided for the Examiner's convenience